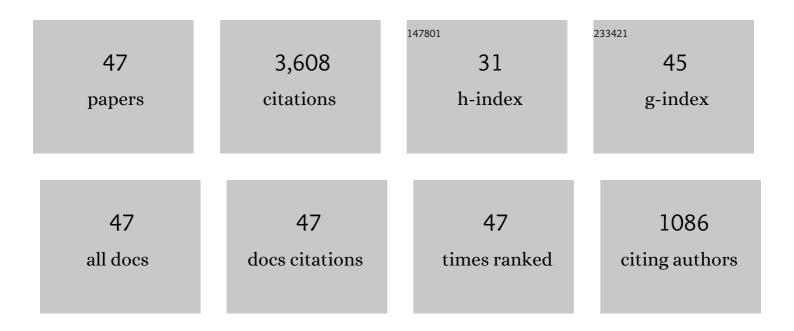
Stephen A Slutz

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | An overview of magneto-inertial fusion on the Z machine at Sandia National Laboratories. Nuclear Fusion, 2022, 62, 042015. | 3.5 | 35 |
| 2 | Dense hydrogen layers for high performance MagLIF. Physics of Plasmas, 2022, 29, 022701. | 1.9 | 2 |
| 3 | Estimation of stagnation performance metrics in magnetized liner inertial fusion experiments using Bayesian data assimilation. Physics of Plasmas, 2022, 29, . | 1.9 | 11 |
| 4 | Fusion gain from cylindrical liner-driven implosions of field reversed configurations. Physics of Plasmas, 2021, 28, . | 1.9 | 4 |
| 5 | Deep-learning-enabled Bayesian inference of fuel magnetization in magnetized liner inertial fusion. Physics of Plasmas, 2021, 28, . | 1.9 | 16 |
| 6 | A Platform to Study High-Field FRC Formation on the Maize Linear Transformer Driver *. , 2021, , . | | 0 |
| 7 | Increased preheat energy to MagLIF targets with cryogenic cooling. , 2021, , . | | Ο |
| 8 | Lasergate: A windowless gas target for enhanced laser preheat in magnetized liner inertial fusion. Physics of Plasmas, 2021, 28, 112703. | 1.9 | 1 |
| 9 | Performance Scaling in Magnetized Liner Inertial Fusion Experiments. Physical Review Letters, 2020, 125, 155002. | 7.8 | 65 |
| 10 | Review of pulsed power-driven high energy density physics research on Z at Sandia. Physics of Plasmas, 2020, 27, . | 1.9 | 140 |
| 11 | A pulsed-power implementation of "Laser Gate―for increasing laser energy coupling and fusion yield in magnetized liner inertial fusion (MagLIF). Review of Scientific Instruments, 2020, 91, 063507. | 1.3 | 6 |
| 12 | Implosion of auto-magnetizing helical liners on the Z facility. Physics of Plasmas, 2019, 26, 052705. | 1.9 | 9 |
| 13 | Constraining preheat energy deposition in MagLIF experiments with multi-frame shadowgraphy. Physics of Plasmas, 2019, 26, . | 1.9 | 27 |
| 14 | Assessing Stagnation Conditions and Identifying Trends in Magnetized Liner Inertial Fusion. IEEE Transactions on Plasma Science, 2019, 47, 2081-2101. | 1.3 | 36 |
| 15 | Origins and effects of mix on magnetized liner inertial fusion target performance. Physics of Plasmas, 2019, 26, . | 1.9 | 37 |
| 16 | Minimizing scatter-losses during pre-heat for magneto-inertial fusion targets. Physics of Plasmas, 2018, 25, . | 1.9 | 30 |
| 17 | Diagnosing and mitigating laser preheat induced mix in MagLIF. Physics of Plasmas, 2018, 25, . | 1.9 | 33 |
| 18 | Enhancing performance of magnetized liner inertial fusion at the Z facility. Physics of Plasmas, 2018, 25, . | 1.9 | 34 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Megagauss-level magnetic field production in cm-scale auto-magnetizing helical liners pulsed to 500 kA in 125 ns. Physics of Plasmas, 2018, 25, 052703. | 1.9 | 12 |
| 20 | Scaling of magnetized inertial fusion with drive current rise-time. Physics of Plasmas, 2018, 25, 082707. | 1.9 | 15 |
| 21 | Auto-magnetizing liners for magnetized inertial fusion. Physics of Plasmas, 2017, 24, . | 1.9 | 21 |
| 22 | Scaling magnetized liner inertial fusion on Z and future pulsed-power accelerators. Physics of Plasmas, 2016, 23, . | 1.9 | 65 |
| 23 | Exploring magnetized liner inertial fusion with a semi-analytic model. Physics of Plasmas, 2016, 23, . | 1.9 | 22 |
| 24 | Experimental Demonstration of the Stabilizing Effect of Dielectric Coatings on Magnetically Accelerated Imploding Metallic Liners. Physical Review Letters, 2016, 116, 065001. | 7.8 | 78 |
| 25 | | 1.9 | 36 |
| 26 | Physics of Plasmas, 2015, 22, 056306. | 1.9 | 75 |
| 27 | Effects of magnetization on fusion product trapping and secondary neutron spectra. Physics of Plasmas, 2015, 22, . | 1.9 | 37 |
| 28 | A semi-analytic model of magnetized liner inertial fusion. Physics of Plasmas, 2015, 22, 052708. | 1.9 | 39 |
| 29 | Modified helix-like instability structure on imploding z-pinch liners that are pre-imposed with a uniform axial magnetic field. Physics of Plasmas, 2014, 21, . | 1.9 | 69 |
| 30 | Pulsed-coil magnet systems for applying uniform 10–30 T fields to centimeter-scale targets on Sandia's Z facility. Review of Scientific Instruments, 2014, 85, 124701. | 1.3 | 47 |
| 31 | Effect of axial magnetic flux compression on the magnetic Rayleigh-Taylor instability (theory). AIP Conference Proceedings, 2014, , . | 0.4 | 17 |
| 32 | Design of magnetized liner inertial fusion experiments using the Z facility. Physics of Plasmas, 2014, 21, | 1.9 | 123 |
| 33 | Experimental Demonstration of Fusion-Relevant Conditions in Magnetized Liner Inertial Fusion. Physical Review Letters, 2014, 113, 155003. | 7.8 | 332 |
| 34 | Understanding Fuel Magnetization and Mix Using Secondary Nuclear Reactions in Magneto-Inertial Fusion. Physical Review Letters, 2014, 113, 155004. | 7.8 | 105 |
| 35 | Observations of Modified Three-Dimensional Instability Structure for Imploding <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">z-Pinch Liners that are Premagnetized with an Axial Field. Physical Review Letters. 2013. 111. 235005.</mml:math | 7.8 | 101 |
| 36 | Beryllium liner implosion experiments on the Z accelerator in preparation for magnetized liner inertial fusion. Physics of Plasmas, 2013, 20, . | 1.9 | 95 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Simulations of electrothermal instability growth in solid aluminum rods. Physics of Plasmas, 2013, 20, . | 1.9 | 58 |
| 38 | Electrothermal instability growth in magnetically driven pulsed power liners. Physics of Plasmas, 2012, 19, . | 1.9 | 102 |
| 39 | Magnetically Driven Implosions for Inertial Confinement Fusion at Sandia National Laboratories. IEEE Transactions on Plasma Science, 2012, 40, 3222-3245. | 1.3 | 154 |
| 40 | Penetrating Radiography of Imploding and Stagnating Beryllium Liners on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi>Accelerator. Physical Review Letters, 2012, 109, 135004.</mml:math | 7.8 | 102 |
| 41 | High-Gain Magnetized Inertial Fusion. Physical Review Letters, 2012, 108, 025003. | 7.8 | 244 |
| 42 | Measurements of magneto-Rayleigh–Taylor instability growth during the implosion of initially solid metal liners. Physics of Plasmas, 2011, 18, . | 1.9 | 104 |
| 43 | Measurements of Magneto-Rayleigh-Taylor Instability Growth during the Implosion of Initially Solid Al Tubes Driven by the 20-MA, 100-ns Z Facility. Physical Review Letters, 2010, 105, 185001. | 7.8 | 132 |
| 44 | Pulsed-power-driven cylindrical liner implosions of laser preheated fuel magnetized with an axial field. Physics of Plasmas, 2010, 17, . | 1.9 | 486 |
| 45 | Target design for high fusion yield with the double Z-pinch-driven hohlraum. Physics of Plasmas, 2007, 14, 056302. | 1.9 | 60 |
| 46 | Pulsed-power-driven high energy density physics and inertial confinement fusion research. Physics of Plasmas, 2005, 12, 055503. | 1.9 | 280 |
| 47 | Production of Thermonuclear Neutrons from Deuterium-Filled Capsule Implosions Driven byZ-Pinch Dynamic Hohlraums, Physical Review Letters, 2004, 93 | 7.8 | 111 |